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 TI Process for the production of white or coloured cement in vertical shaft kiln  
 IN Saboo, Durga Prasad  
 PA India  
 SO Indian, 30 pp.  
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 DT Patent  
 LA English  
 IC ICM C04B007-00  
 CC 58-1 (Cement, Concrete, and Related Building Materials)  
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 162194	A	19880416	IN 1984-CA50	19840124
PRAI	IN 1984-CA50		19840124		

# CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
IN 162194	ICM	C04B007-00

AB The title process comprises grinding limestone 70-75, china clay 10-15, quartz 3-5, and coke/coal 10-20 weight%, granulating the powdered materials, and

calcining the nodules in a vertical shaft kiln at temperature 1300-1600°. The obtained **clinker** is mixed with CaSO<sub>4</sub> 4-6 weight% and ground to produce cement. Raw materials for white cement contain BaSO<sub>4</sub>, BaO, CaF<sub>2</sub>, NaSiF, Na<sub>2</sub>SO<sub>4</sub> ≤ 0.2 weight% to improve the firing properties, and NH<sub>4</sub>Cl or NH<sub>4</sub>(CO<sub>3</sub>)<sub>2</sub> ≤ 1 weight to improving the whiteness of the cement. Premixed solid fuel is added to increase fuel efficiency.

Colored cement is obtained by adding compds. of metals (Zr, Ti, Mn, Co, Ni, Cr, V, B) as pigments at ≤10 weight%.

The invented process is more economical and the produced cement has improved luster and stability of color shade.

ST white **colored cement** prodn; vertical shaft kiln cement prodn

IT Kaolin, uses and miscellaneous  
 Limestone, uses and miscellaneous  
 RL: USES (Uses)

(cement containing, white or colored)

IT Coal  
 RL: USES (Uses)

(in white or **colored cement** production)

IT **Cement**  
 (white or **colored**)